OR-19

SYNTHESIS AND PROPERTIES NEW DERIVATIVES OF 3,4-PHENYLENEDIOXYTHIOPHENE

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Facile one-pot microwave-assisted method of synthesis of new functionalized arylenedioxythiophenes as promising building blocks for conjugated polymers and studying their properties are presented (Figure 1)[1].

An effect of small structural variations in functionalized 3,4-phenylenedioxythiophenes on the surface nanostructure and parahydrophobic properties of their electropolymerized films is presented (Figure 2)[2,3].

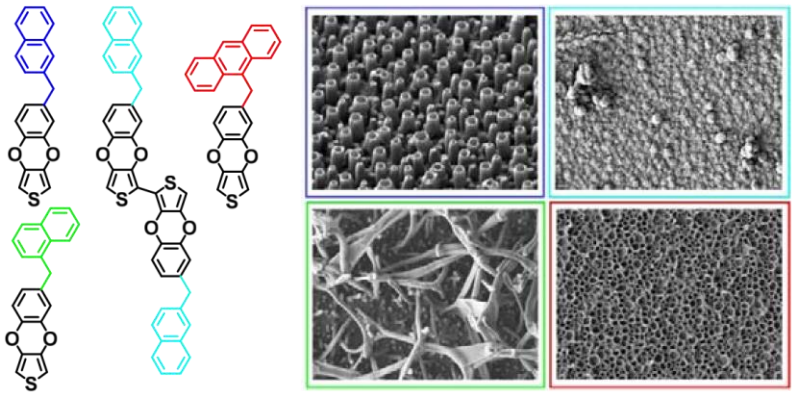

Figure 2. SEM images of the polymer surfaces electrodeposited from the represented monomers.

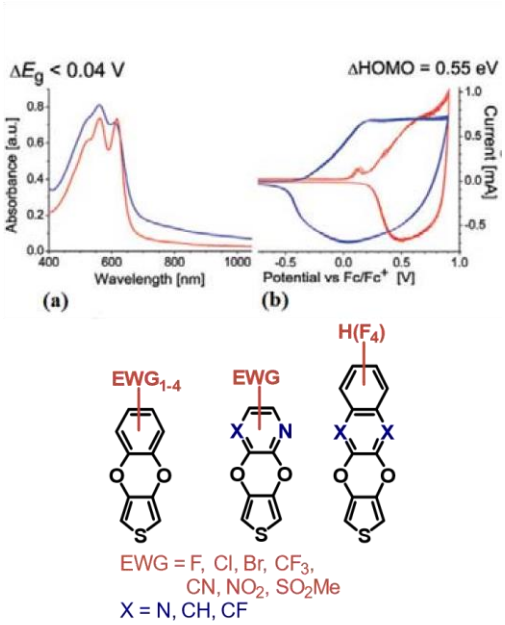

Figure 1. Comparison of properties of p[PheDOT] and p[4CF$_3$-PheDOT] in films

References

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